

Introduction

- ▶ Iron-V LFP24-50EV is a high-performance lithium battery pack, which has high energy density, good discharge performance, high charging and discharging efficiency, and small battery volume.
- ▶ Iron-V LFP24-50EV has a long lifespan, light weight, easy installation, and maintenance free features.



Features



Cost Effectiveness



Longer Service Life



Guaranteed Safety



Fast Charge



Drop-in Replacement

Discharge

Discharging Time Cut-off voltage 21.6V/25°C	1h	2h	3h	5h	10h
Constant Current Discharge	50A	25A	16.6A	10A	5A
Constant Power Discharge	1280W	640W	420W	256W	128W

Attentions:

- When the battery needs to be used in parallel or in series, each battery shall be fully charged according to the standard charging method before parallel or in series.
- After the battery is deeply discharged. It should be charged in a timely manner. Otherwise, BMS may not work due to low voltage, and the battery may permanently fail.

Item		Iron-V LFP24-50EV
General parameter	Nominal voltage	25.6V
	Nominal capacity/energy (25°C,0.2C)	50Ah/1280Wh
	Weight	13.2Kg
	Cell positive material	LiFePO4
	Terminal Type	M8
	Dimensions (W * D * H)	330*172*220mm
	IP rating	IP65
	Case Material	ABS
	Cycle life (25°C, 0.2C)	2000 @80% DOD
	Design life (25°C)	10 years
	Optional function	None
Electrical parameter	Operating voltage	21.6V-29.2V
	Max. charge/discharge current (25 °C)	50A/50A
	Peak Discharge Current (25°C)	80A (≤10S)
	Recommended charge /discharge current (25 °C)	25A/25A
	Recommended charge voltage	29.2V
	Battery input protection	BMS
	Self discharge (25 °C)	< 5%@3 month
	Internal resistance	≤15mΩ@100%SOC
	Maximum Modules in Series or paralleling	2pcs/4pcs
	Protection function	Overvoltage protection, overcurrent protection, low-voltage protection, over temperature protection, low temperature protection, short circuit protection
BMS parameter	Charge Protection	Primary: >55.0A; Secondary: >65A;
	Discharge Protection	Primary: >55A; Secondary: > 100A;
	Over-charge Voltage Protection	>29.6V
	Over-discharge voltage protection	<9.6V
	High Temp. Protection	65°C, Recover: 60°C
	Low Temp. Protection	charge : 0°C, Recover: 3°C discharge : -20°C, Recover: -15°C
Environment	Charging temperature	0~55°C
	Discharging temperature	-20~55°C
	Storage temperature	-10°C~45°C
	Relative humidity	5%~95% (non condensing)

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